


FCC PART 15.209
EMI MEASUREMENT AND TEST REPORT
 For
CONTROLLED ENTRY DISTRIBUTORS, INC.
 2500 South 3850 West, Suite A, Salt Lake City, UT 84120 USA

FCC ID: SU7RD-004

Jan.29,2008

This Report Concerns: Original Report	Equipment Type : ACCESS CONTROLLER
Test Engineer:	Eric Li <i>Eric Li</i>
Report No.:	F08012919B
Receive EUT Date/Test Date:	Jan.21,2008/ Jan.21-29,2008
Reviewed By:	Christina <i>Christina</i>
Prepared By:	 Shenzhen BST Technology Co.,Ltd. 3F,Weames Technology Building, No. 10 Kefa Road,Science Park, Nanshan District,Shenzhen,Guangdong,China Tel: 0755-26747751 ~ 3 Fax: 0755-26747751 ~ 3 ext.826

Note: The test report is specially limited to the above company and this particular sample only. It may not be duplicated without prior written consent of Shenzhen BST Technology Co.,Ltd. This report must not be used by the client to claim product certification,approval,or endorsement by NVLAP, NIST or any agency of the US Government.

TABLE OF CONTENTS

1.	GENERAL INFORMATION	3
1.1.	Report information	3
1.2.	Measurement Uncertainty	3
2.	PRODUCT DESCRIPTION	4
2.1.	EUT Description	4
2.2.	Block Diagram of EUT Configuration.....	4
2.3.	Support Equipment List	4
2.4.	Test Conditions	4
3.	FCC ID LABEL.....	5
4.	TEST RESULTS SUMMARY	6
	Modifications	6
5.	TEST EQUIPMENT USED	7
6.	RADIATED EMISSIONS	8
6.1.	Test Equipment	8
6.2.	Test Procedure	8
6.3.	Radiated Test Setup	8
6.4.	Radiated Emission Limit.....	8
6.5.	Radiated Emission Test Result	9

1. GENERAL INFORMATION

1.1. Report information

1.1.1. This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that BST approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that BST in any way guarantees the later performance of the product/equipment.

1.1.2. The sample/s mentioned in this report is/are supplied by Applicant, BST therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.

Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through BST, unless the applicant has authorized BST in writing to do so.

Test Facility -

The test site used to collect the radiated data is located on the address of Shenzhen BST Technology Co.,Ltd. (FCC Registered Test Site Number: 949181) on 3F, Weames Technology Building, No.10 Kefa Road, Science Park, Nanshan District, Shenzhen, China.

The Test Site is constructed and calibrated to meet the FCC requirements.

1.2. Measurement Uncertainty

Available upon request.

2. PRODUCT DESCRIPTION

2.1. EUT Description

Description : ACCESS CONTROLLER
Applicant : CONTROLLED ENTRY DISTRIBUTORS, INC.
2500 South 3850 West, Suite A, Salt Lake City, UT 84120 USA
Model Number : RD-004

Additional Information

Frequency : 0.125MHz
Power Supply : DC12V (Powered by battery)
Maximum : N/A
Range
Transmitter : -
Antenna
Current : N/A
Consumption

2.2. Block Diagram of EUT Configuration



2.3. Support Equipment List

1. - -

2.4. Test Conditions

Temperature: 23~25
Relative Humidity: 55~63 %

3. FCC ID LABEL

FCC ID:SU7RD-004

FCC NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: 1. This device may not cause harmful interference, and 2. This device must accept any interference received, including interference that may cause undesired operation.

Label Location on EUT

EUT Bottom View/ FCC ID Label Location



4. TEST RESULTS SUMMARY

FCC 15 Subpart C, Paragraph 15.209

Test Standards	Test Items	Test Results
FCC Part 15 Subpart C, Paragraph 15.209	Radiated Emission (9KHz to 30MHz 30MHz to 1000MHz)	Pass

Remark: "N/A" means "Not applicable."

Modifications

No modification was made.

5. TEST EQUIPMENT USED

Equipment/Facilities	Manufacturer	Model #	Serial no.	Date of Cal.	Cal. Interval
Cable	Resenberger	N/A	NO.1	Mar 10 , 2007	1 Year
Cable	SCHWARZBECK	N/A	NO.2	Mar 10 , 2007	1 Year
Cable	SCHWARZBECK	N/A	NO.3	Mar 10 , 2007	1 Year
LISN	Rohde & Schwarz	ESH3-Z5	100305	Mar 10 , 2007	1 Year
50 Coaxial Switch	ANRITSU CORP	MP59B	6200283933	Mar 10, 2007	1 Year
EMI Test Receiver	Rohde & Schwarz	ESP13	100180	Oct.18,2007	1 Year
Spectrum Analyzer	Rohde & Schwarz	FSP40	100273	Sep.10,2007	1 Year
3m Semi-Anechoic Chamber	Albatross Projects	9m×6m×6m	N/A	Feb.20,2007	1 Year
Signal Generator	FLUKE	PM5418 + Y/C	LO747012	Feb.20,2007	1 Year
Signal Generator	FLUKE	PM5418TX	LO738007	Feb.20,2007	1 Year
Loop Antenna	SCHWARZBECK	FMZB1516	113	Jan.30,2007	1 Year
Trilog-Super Broadband Antenna	SCHWARZBECK	VULB9161	9161-4079	Sep.22,2007	1 Year
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-564	Sep.22,2007	1 Year
Ultra Broadband Antenna	Rohde & Schwarz	HL-562	100110	June.15,2007	1 Year
AMN	Rohde & Schwarz	ESH3-Z5	100196	Oct.11,2007	1 Year
AMN	Rohde & Schwarz	ESH3-Z5	100197	Oct.11,2007	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	N/A	N/A	N/A
Power Meter	Rohde & Schwarz	NRVD	100041	Feb.20,2007	1 Year
EMI Test Receiver	Rohde & Schwarz	ESCS30	100003	Feb.20,2007	1 Year
Coaxial Cable with N-connectors	SCHWARZBECK	AK9515H	95549	Sep.22,2007	1 Year
Radio Communication Test Set	Rohde & Schwarz	CMS 54	846621/024	Feb.20,2007	1 Year
Modulation Analyzer	Hewlett-Packard	8901B	2303A00362	Feb.20,2007	1 Year
Absorbing clamp	Rohde & Schwarz	MDS-21	N/A	Oct.29,2007	1 Year

6. RADIATED EMISSIONS

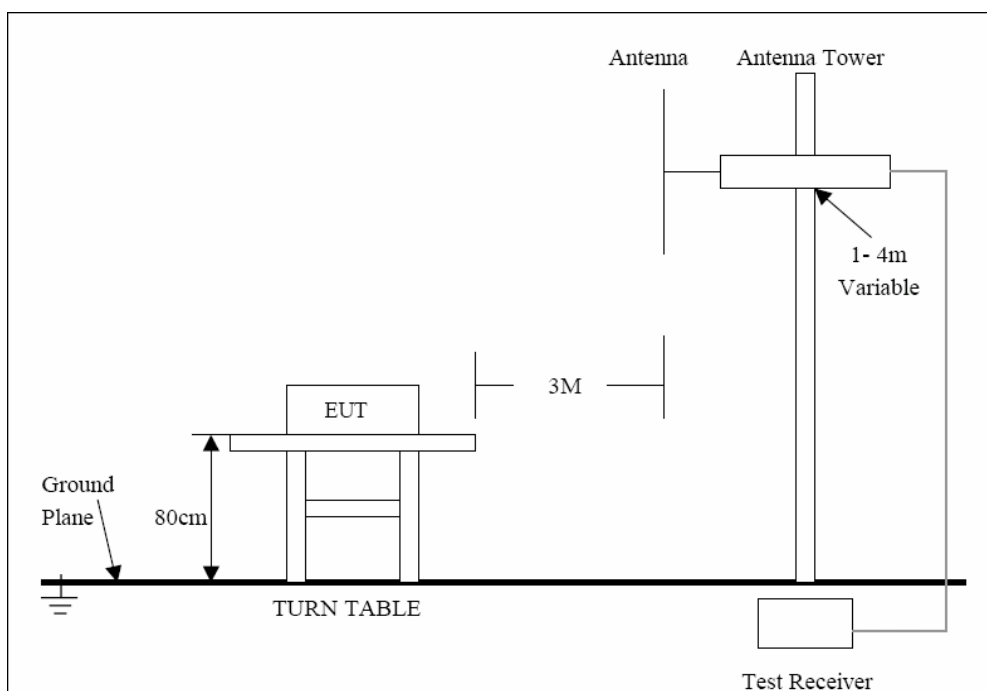
6.1. Test Equipment

Please refer to section 4 this report.

6.2. Test Procedure

The out of band emission tests were performed in the 3-meter chamber test site, using the setup accordance with the ANSI C63.4-2003. The specification used was the FCC Part Subpart C limits.

6.3. Radiated Test Setup



For the accrual test configuration, please refer to the related items-photos of Testing.

6.4. Radiated Emission Limit

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency MHz	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F (kHz)	300
0.40 –1.705	24000/F (kHz)	30
1.705 –30.0	30	30
30 -80	100 **	3
88 -216	150 **	3
216 -960	200 **	3
Above 960	500	3

6.5. Radiated Emission Test Result

FREQ. (MHZ)	LEVEL		LIMIT	MARGIN
	@3m dBuV /m	@300m uV/m	@300m uV/m	uV/m
0.125	97.8	7.8	19.2	-11.4
0.250	-	-	9.6	-
0.375	-	-	6.4	-
0.5	-	-	4.8	-
0.625	-	-	3.84	-

FREQ. (MHZ)	POL V/H	LEVEL (DBμV)	LIMIT (DBμV)	MARGIN (DB)
76.00	H	25.90	40	-14.1
107.04	H	37.99	43.5	-5.51
132.28	H	37.23	43.5	-6.27
322.00	H	42.00	46	-4.00
647.64	H	32.61	46	-13.39
985.88	H	24.45	54	-29.55
69.76	V	21.48	40	-18.52
109.04	V	32.52	43.5	-10.98
250.00	V	23.14	46	-22.86
323.20	V	40.37	46	-5.63
644.76	V	32.18	46	-13.82
984.36	V	31.82	54	-22.18

Note: The frequency will not be recorded if the the level of the spurious emission is very weak(no harmonic or spurious emissions were higher than 20dB below the limits of 47 CFR Part 15.209).